

## **Historic, Archive Document**

Do not assume content reflects current  
scientific knowledge, policies, or practices.



ATS1577  
H3052

REPORT NO. 8

# Cotton Fiber and Processing Test Results

CROP of

1973



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38117    December 7, 1973

This is the eighth of a series of reports of fiber and processing test results from the 1973 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1972", May 1973. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.



## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1973

### Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report short staple samples tested through November 30, have approximately the same fiber properties as last season at this time. Shirley Analyzer non-lint content and picker and card waste are higher. Yarn appearance grades and imperfections are lower than last season. Average spinning potential yarn number is lower.

Averages for all medium staple samples tested show coarser fibers compared with a year ago. Yarn imperfections are more this season. Average spinning potential yarn number is lower.

Medium staple samples from the Southeast tested to date show coarser fibers. Shirley Analyzer nonlint content is higher. Yarn imperfections are greater than a year ago. Spinning potential is lower than last season.

South Central medium staple samples tested are coarser and weaker than a year ago. Yarns spun from these samples show approximately the same processing test results as a year ago.

Southwest medium staple samples are weaker at zero gage strength. Picker and card waste is less this season. Yarns spun from these samples are weaker. Appearance grades are lower, with more imperfections showing up than a year ago at this time. Average spinning potential yarn number is lower.

Medium staple samples from the West show fiber to be longer with a higher uniformity than last season. Samples tested are coarser and stronger than a year ago. Yarns spun from these samples are stronger. Appearance grades were lower and more imperfections appeared in samples tested to date.

Averages for all long staple samples tested through this period show weaker fiber at zero gage strength than a year ago. Yarns spun from these samples show higher appearance grades for both carded and combed yarns. Yarn imperfections are fewer for carded yarns.

Southeast long staple samples tested show coarser and weaker fibers than a year ago. Shirley Analyzer results show higher nonlint content than a year ago. Yarns spun from these samples show higher appearance grades than last season. Yarn imperfections are fewer for carded yarns.

South Central long staple samples show shorter length and weaker fiber strength than last season. Comber waste is higher than last season. Yarns spun from these samples are weaker, but appearance grades are higher. Yarn imperfections are more than last season. Spinning potential number is lower than a year ago.

Long staple samples tested from the West to date are shorter than last season. Comber waste is less. Yarns spun from these samples are stronger and appearance grades higher than a year ago. Imperfections are fewer this season and spinning potential yarn number is higher.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States  
through November 30, 1973 1/

Staple group Area, and Crop year	Lots tested	Fiber test results							Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.		
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance	Imperf- ections			
				Inches			Pct.	Rdg.				Mpsi	G/tex	Pct.
		No.												
<u>Short Staple:</u>														
Southwest	22	.98	45	4.5	84	20	3.0	5.9	95	119	22	47		
1972	25	.98	46	4.4	85	21	3.4	6.4	95	111	19	43		
<u>Medium Staple:</u>														
Southeast	51	1.08	45	4.3	83	23	2.9	6.1	105	103	16	67		
1972	36	1.08	46	4.7	82	22	3.5	6.2	104	107	22	62		
South Central														
1972	135	1.09	45	4.4	84	23	2.8	6.1	104	109	18	64		
1973	112	1.10	45	4.6	82	22	3.0	5.7	102	110	19	62		
Southwest														
1972	29	1.07	46	4.5	84	22	3.0	6.1	103	121	21	63		
1973	31	1.08	45	4.4	81	22	2.8	5.6	99	100	25	59		
West														
1972	38	1.11	45	4.4	91	25	2.4	5.3	113	121	15	68		
1973	34	1.13	47	4.7	95	26	2.2	5.5	119	109	20	68		
U.S. Average														
1972	253	1.09	45	4.4	85	23	2.8	6.0	103	111	18	66		
1973	213	1.10	46	4.6	84	23	2.9	5.8	105	108	21	63		
Significant dif- ference <u>2/</u>														
		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3		

1/ Based on a limited number of samples of modal quality2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States  
through November 30, 1973  
1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results						Processing Test Results										SPY									
		Length		Mike	Strength		SA Non- lint	P&C Waste	Comber Waste	Yarn Quality					Imprfctns card comb												
		Span	Unif		Zero gage	1/8" gage				Strength carded	combed	Appearance carded	combed	Indx card			Indx comb										
No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	No.	No.	No.													
22s Carded & Combed Yarn																											
Long Staple:																											
Southeast																											
1972	16	1.12	44	4.4	85	24	3.5	8.3	16.9	107	123	102	116	24	9	69											
1973	11	1.12	45	4.6	83	23	4.0	8.6	16.8	105	121	118	127	17	8	68											
South Central																											
1972	3	1.17	45	4.3	89	24	4.1	8.6	15.6	117	133	103	113	16	8	75											
1973	5	1.15	44	4.3	86	24	4.0	8.8	17.2	111	129	116	128	21	9	66											
West																											
1972	10	1.18	44	3.8	92	26	2.3	7.0	15.4	128	146	91	98	30	15	86											
1973	8	1.16	45	3.9	92	27	2.2	7.0	14.7	137	153	104	114	17	9	93											
U.S. Average																											
1972	29	1.14	44	4.2	88	24	3.2	7.9	16.2	115	132	98	110	25	10	75											
1973	24	1.14	45	4.3	86	25	3.4	8.1	16.2	117	133	113	123	18	9	76											
Array																											
American Pima																											
50's Combed Yarn																											
Extra Long Staple:																											
West																											
1972	8	1.46	32	3.6	99	31	2.3	7.8	18.1	63		109		3													
1973	3	1.46	32	4.0	98	33	2.7	7.1	18.0	65		123		2													
Significant																											
Difference 2/																											
0.02															2	0.2	2	1	0.5	0.5	0.5	4(22s)	5	5	2	2	3

Array

American Pima

50's Combed Yarn

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification &				Fiber Test Results										Processing Test Results - Carded Yarns											
Sample Number		Grade	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent-ial			
				2.5% span	Unif		Zero Gage	1/8" Gage			Pct	Pct		Gra	Yel	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx		8s or 74 tx	22sor 27 tx	
No	Name & Code		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No		Lbs	Lbs	Pct	Pct	No	No	No	No				
SOUTHWEST APEA																									
CENTRAL TEXAS																									
ITASCA																									
2	SLM LT SP	42	31	0.93	45	4.6	86	21	6.3	2.9	4	3	7.0	278	87	7.1	6.1	130	110	17	14	38			
NORTHWEST TEXAS																									
ANSON																									
1	SLM	41	30	0.93	46	4.7	81	21	8.4	2.8	2	3	5.4	299	91	8.4	7.2	120	110	24	23	42			
RULA																									
1	WID	31	30	0.91	43	4.8	97	21	7.0	2.3	1	3	6.1	283	89	7.5	6.4	130	120	19	15	37			
FLORADO																									
1	LM LT SP	52	21	1.02	45	3.7	82	21	7.4	5.1	3	3	3.3	201	92	7.9	6.7	120	100	38	28	46			
LENGRAH																									
2	WID	31	31	0.93	47	4.3	83	20	6.4	1.9	1	3	5.9	291	89	7.8	6.6	130	110	11	8	38			
MEADOW																									
1	SLM	41	30	0.95	46	4.8	93	22	6.4	2.4	2	3	5.2	297	91	7.7	6.3	130	110	23	13	41			
RULF																									
1	SLM	41	21	0.90	46	4.7	98	21	6.5	2.1	2	3	5.7	291	94	7.4	6.3	130	120	29	19	47			
SEAGRAVES																									
1	WID	31	29	0.93	45	3.3	98	20	6.0	2.8	1	3	7.1	277	80	7.0	5.4	120	100	14	11	34			

1/ Reduced from 42 because of bark



Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Style	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potent- ial	
				2.5% span	Unif.		Zero	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx				
																				In	Pct		Rdg
SOUTHEAST AREA																							
ALABAMA																							
CURA																							
2 LM	51	34	1.11	45		4.6	75	22	8.1	2.7	3	3	7.3	97	31	6.9	4.7	120	90	13	11	67	
DIXIE KING II																							
80 PERCENT																							
CULLMAN																							
2 LM	51	33	1.03	46		4.7	80	22	6.8	3.1	3	3	5.3	98	28	6.1	4.5	110	90	13	13	50	
DIXIE KING II																							
80 PERCENT																							
GREENBRIER																							
2 SLM	41	33	1.01	47		4.7	79	22	7.3	3.0	1	3	6.9	96	30	6.6	5.0	130	90	20	14	54	
STONEVILLE 213																							
98 PERCENT																							
HARRERSVILLE																							
2 LM	51	34	1.09	46		4.5	84	23	7.4	3.7	2	2	5.6	108	34	6.5	4.7	100	90	19	16	69	
DELTAPINE 16																							
90 PERCENT																							
HUNTSVILLE																							
2 LM	51	33	1.05	48		4.9	78	20	7.9	2.7	3	3	5.5	94	28	6.8	4.7	100	90	23	16	57	
STONEVILLE 213																							
85 PERCENT																							
PRATTVILLE																							
2 SLM	41	35	1.11	47		4.0	84	26	6.2	3.0	2	3	7.5	121	42	6.7	5.0	110	90	17	13	71	
COKER 417																							
100 PERCENT																							
SYLACAUGA																							
2 LM	51	34	1.06	46		4.2	81	23	7.5	5.0	3	2	7.4	101	30	6.5	4.7	110	80	36	24	59	
STONEVILLE 603																							
100 PERCENT																							
TUSKEGEE																							
2 SLM	41	34	1.09	46		4.3	82	23	6.8	2.5	1	3	6.4	102	32	6.1	4.5	120	100	10	9	66	
DELTAPINE 16																							
95 PERCENT																							
GEORGIA																							
DAWSON																							
2 LM	51	33	1.07	46		4.7	85	21	7.1	4.3	3	3	6.4	94	26	6.3	4.3	100	70	20	16	54	
STONEVILLE 213																							
70 PERCENT																							
REYNOLDS																							
2 SLM	41	34	1.09	44		4.5	84	21	6.8	2.8	2	3	5.7 1/	96	29	5.8	4.2	90	70	31	24	53	
COKER 201																							
100 PERCENT																							
NORTH CAROLINA																							
LAURENURG																							
2 LM	51	35	1.03	47		4.5	82	24	6.9	6.2	3	3	10.1	115	38	6.7	5.1	90	80	34	23	67	
MCNAIR 511																							
100 PERCENT																							
SOUTH CAROLINA																							
CALHOUN FALLS																							
2 LM	51	34	1.08	45		4.5	81	23	6.5	5.0	3	3	7.5	101	33	6.3	4.4	100	80	22	18	59	
COKER 201																							
100 PERCENT																							

1/ Cotton stuck to processing roller

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns									
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten- tial	
No	Grade	Stple	2.5% span	Unif.	Zero		1/8" Gage	Pct			No	Gra		Yel	22s or 27 tx	50s or 12 tx	Pct	22s or 27 tx	50s or 12 tx	No	No		No
32s				In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No		
SOUTH CENTRAL AREA																							
ARKANSAS																							
FIDORA																							
2 SLM	41	34	1.11	46	5.0	81	23	8.1	16	3.0	2	3	5.4	100	35	7.1	5.0	100	80	13	9	61	
HELENA																							
2 SLM	41	35	1.13	46	4.5	77	21	7.9	16	3.0	2	3	5.5	103	35	6.8	5.2	100	90	17	12	62	
HELENA																							
2 SLM	41	35	1.12	47	4.9	82	22	7.4	213	4.0	2	2	6.4	100	29	6.3	4.4	100	90	19	13	64	
HUGHES																							
2 SLM	51	34	1.12	47	4.9	76	22	7.0	213	3.3	3	3	7.0	89	27	6.1	4.2	90	80	20	16	55	
NEWPORT																							
2 SLM	41	35	1.11	47	5.0	81	21	6.8	213	1.9	2	3	5.1	96	28	6.0	4.1	110	80	21	11	56	
PRCTOR																							
2 SLM	41	34	1.07	44	4.7	73	21	7.4	213	3.4	2	3	5.6	93	21	6.2	4.0	90	70	21	19	48	
WALNUT RIDGE																							
2 MID	31	34	1.09	45	4.5	81	20	6.9	66	2.2	1	3	4.9 1/2	94	27	6.2	4.3	120	90	15	10	59	
WYNN																							
2 SLM	41	34	1.10	45	4.9	85	24	7.4	16	4.0	2	3	5.8	101	33	6.2	4.8	110	90	17	15	64	
LOUISIANA																							
ALEXANDRIA																							
2 SLM	41	34	1.03	44	4.5	75	20	7.1	213	2.9	3	3	5.3	79	22	5.8	3.9	100	70	40	25	45	
BUNKIE																							
2 SLM	51	34	1.07	46	4.3	75	22	7.3	45A	3.5	5	2	6.2	86	27	6.2	4.3	100	70	20	18	54	
LAKE PROVIDENCE																							
2 SLM	41	35	1.13	46	4.7	80	23	8.3	16	3.4	1	2	6.3	111	39	7.2	5.4	120	100	14	8	77	
LAKE PROVIDENCE																							
2 SLM	41	34	1.09	46	4.7	82	23	6.8	213	2.0	2	3	5.8	95	30	6.0	4.6	90	80	17	16	56	
MONROE																							
2 SLM	41	35	1.12	45	4.5	78	22	8.0	16	2.6	3	3	5.1	96	30	6.4	4.9	90	70	47	27	59	

1/ Cotton stuck to processing roller

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results						Processing Test Results - Carded Yarns												
No	Grade	Stple	32s In span	Digital Fibrograph	Mike	Fiber Strength		Elon- gat'n 1/8" Gage	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect's		Spin. Potent- tial	
						Zero Gage	Mpsi			G/tex	Pct		Pct	Gra	Yel	22s or 27 tx	Lbs	Pct	22s or 27 tx	50s or 12 tx		22s or 27 tx
SOUTH CENTRAL AREA--(Continued)																						
LOUISIANA--(Continued)																						
OAK GROVE																						
2	SLM	LT SP	42 34	1.11	46	5.1	81	23	7.9	2.4	3	3	6.4	103	34	6.6	4.7	130	100	10	8	64
SHREVEPORT																						
2	SLM		41 34	1.13	44	4.7	76	22	8.5	3.2	2	3	5.2	95	29	6.6	4.7	80	70	39	24	57
SICILY ISLAND																						
2	LM		51 34	1.08	46	4.6	80	20	7.0	3.8	4	3	6.7	91	25	6.0	4.0	110	80	22	18	58
MISSISSIPPI																						
CLARKSDALE																						
2	LM		51 34	1.10	45	4.7	85	21	6.9	5.6	3	3	6.6	95	29	6.4	4.6	100	70	23	16	59
EDWARDS																						
2	SLM		41 34	1.07	47	4.9	82	22	6.6	2.5	3	3	6.5	94	30	6.2	4.4	120	90	9	8	58
FOREST																						
DELTA PINE 16																						
2	SLM		41 34	1.09	44	4.6	82	21	6.5	2.7	2	2	6.4	97	31	6.5	4.7	120	90	18	6	59
GUNNISON																						
2	SLM		41 35	1.12	46	4.5	80	24	7.8	2.3	2	2	6.7	105	35	7.0	5.3	110	90	24	10	72
HOLLY SPRINGS																						
2	SLM		41 35	1.10	43	3.5	79	23	8.8	4.1	1	2	7.8	110	36	7.3	5.2	100	90	21	19	67
INDIANOLA																						
2	LM		51 34	1.09	48	4.7	85	24	6.0	5.0	3	2	6.4	112	37	6.2	4.5	100	90	20	15	67
LAKE CORMORANT																						
2	SLM		41 36	1.14	45	4.0	78	20	8.5	2.7	1	2	5.2	105	35	7.5	4.9	110	80	21	12	71
LELAND																						
2	LM		51 34	1.13	45	4.4	79	22	7.4	5.3	3	2	7.1	104	32	6.9	4.8	100	70	25	21	61
SCOTT																						
2	SLM		41 35	1.14	44	4.0	82	22	8.0	3.1	2	2	4.9	108	35	7.2	5.2	100	80	19	19	71
TRIBETT																						
3	SLM		41 34	1.12	46	4.7	90	23	6.0	3.5	2	2	6.3	99	28	5.7	3.7	100	70	18	18	57

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non-Lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Pot- tial
				2.5% span	Unif.		Zero	1/8" Gage		Pct	Pct	Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
SOUTH CENTRAL AREA--(Continued)																							
MISSISSIPPI--(Continued)																							
TUNICA																							
2 SLM	41	35	1.08	46	5.0	84	22	6.8	3.0	2	3	6.0	100 PERCENT	91	26	6.1	4.3	110	80	16	15	51	
MISSOURI																							
RELL CITY																							
3 SLM	41	34	1.05	44	4.5	83	21	6.8	2.4	1	3	4.5	100 PERCENT	93	31	6.7	4.9	90	70	20	15	57	
CAMPBELL																							
3 SLM	41	34	1.10	45	4.3	79	21	7.5	2.5	1	2	5.1	98 PERCENT	101	32	6.9	4.8	110	90	24	19	60	
STEELE																							
2 SLM	41	34	1.07	45	4.7	79	23	7.2	3.4	1	3	5.5	95 PERCENT	98	29	6.3	4.3	100	90	24	13	53	
TENNESSEE																							
MILLINGTON																							
2 SLM	41	34	1.08	46	4.2	80	22	7.6	4.1	2	3	5.4	95 PERCENT	95	29	6.4	4.4	110	90	15	14	59	
SPRING CREEK																							
2 SLM	41	34	1.01	45	4.8	82	20	6.4	2.4	3	3	7.3	90 PERCENT	81	25	5.3	4.3	120	100	6	9	47	
SOUTHWEST AREA																							
CENTRAL TEXAS																							
WHITNEY																							
2 SGN	61 1/2	32	1.01	40	3.1	81	22	6.6	5.9	5	3	9.3	100 PERCENT	87	26	6.1	4.3	80	60	57	46	43	
NORTHWEST TEXAS																							
BROWNFIELD																							
1 MID	31	30	.99	47	4.5	84	21	7.0	3.1	1	3	5.5	70 PERCENT	83	22	5.6	4.4	110	80	24	15	44	
O'DONNELL																							
1 MID LT SP	32	32	1.01	46	4.4	84	21	6.6	2.1	2	4	5.4	70 PERCENT	94	26	6.3	4.2	90	70	36	24	49	
OKLAHOMA																							
WEBBERS FALLS																							
1 SLM	41	35	1.17	46	4.8	80	24	7.6	2.8	2	3	5.3 1/2	95 PERCENT	110	38	7.2	5.0	100	90	13	11	73	

1/ Reduced from 51 because of bark  
2/ Cotton stuck to processing roller



Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade & Code	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct's		Spin. Poten- tial	
				2.5% span	In		Pct	Rdg			Mpsi	G/tex		Pct	Gra	Yel	22s or 27 tx	Lbs	Pct	22s or 27 tx	50s or 12 tx		22s or 27 tx
WEST AREA																							
ARIZONA																							
BOWIE																							
2 MID		31	34	1.03	44	4.1	82	20	6.7	2.7	0	3	5.8	88	24	6.1	4.7	100	80	23	20	40	
BUCKEYE																							
1 MID LT SP		32	35	1.08	45	5.3	94	22	6.2	2.5	1	4	5.5	94	28	5.4	4.5	100	90	20	13	46	
CHANDLER																							
2 MID		31	35	1.14	45	4.7	85	24	7.4	2.5	0	3	4.5	108	36	6.4	5.1	110	70	21	12	63	
PARKER																							
2 MID		31	35	1.10	45	4.8	88	23	7.1	2.0	1	3	4.5	102	30	6.1	4.2	100	90	17	12	56	
STANFELD																							
2 MID		31	34	1.09	44	4.8	85	22	7.6	2.0	1	3	5.4	90	26	5.8	4.3	110	90	19	17	46	
CALIFORNIA																							
BAKERSFIELD																							
2 MID		31	35	1.11	48	4.9	96	29	5.7	2.3	1	3	6.2	124	43	6.2	4.5	120	90	9	8	74	
ARAWLEY																							
1 MID		31	34	1.07	44	4.9	88	25	6.5	2.0	1	3	6.1	95	26	5.8	3.9	100	70	23	20	48	
BUTTERNWILLOW																							
2 MID		31	35	1.09	46	4.5	96	28	5.2	1.8	1	3	7.3	120	41	5.9	4.4	120	90	15	10	69	
PIXLEY																							
2 SLM		41	35	1.09	46	4.3	100	26	5.3	2.5	2	3	5.2	116	38	5.4	4.1	90	70	28	21	64	
SHAFTER																							
2 SLM		41	35	1.12	46	4.1	92	27	5.5	2.6	2	3	6.9	130	45	6.2	4.6	110	80	16	11	74	
STRATFORD																							
2 MID		31	35	1.12	46	4.4	97	26	6.4	2.0	1	3	4.7	118	40	5.8	4.3	100	80	21	14	72	
WASCO																							
1 MID		31	35	1.11	46	4.4	92	27	5.9	2.3	1	3	6.9	124	42	6.0	4.7	100	80	23	18	75	
2 SLM		41	35	1.07	45	4.4	98	26	5.4	2.7	3	4	4.8	112	36	5.5	3.9	90	70	23	18	63	
WEST TEXAS																							
PERCS																							
1 MID		31	34	1.03	44	4.3	76	22	8.4	1.9	0	3	5.8	103	33	7.7	5.4	130	90	8	10	66	

1/ Cotton stuck to processing roller

\* 100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns									
Sample Number			Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Comber and Waste	Strength		Elongation		Appearance Index		Imprfct's		Spin. Potential	
				2.5% span	Unif.		Zero Gage	1/8" Gage			Pct	Rdg		Mpsi	G/tex	Pct	Pct	Gra	Yel	Pct	Lbs		Pct
No	Grade	Name & Code	32s	In	Pct						No	No		Lbs	Pct	Pct	No	No	No	No			
SOUTHEAST AREA																							
ALABAMA																							
GERALDINE																							
2	LM		51	34	1.13	45	4.6	86	23	7.2	5.0	3	3	100 PERCENT	5.0	110	90	15	11	62			
												*	15.6	102 35 6.2	5.0	120	100	7	5				
														119 40 6.9	5.0	120	100						
GEORGIA																							
CCMER																							
2	SLM LT 50		42	34	1.11	45	5.2	80	24	7.1	2.9	3	4	100 PERCENT	4.5	120	100	15	9	63			
												*	15.6	106 32 5.9	4.7	130	100	5	5				
														121 40 6.4	4.7	130	100						
MADISON																							
2	SLM LT 50		42	34	1.11	46	4.8	82	23	6.8	4.4	4	4	100 PERCENT	4.6	110	90	15	12	61			
												*	16.7	101 30 5.8	4.9	130	100	10	8				
														116 39 6.5	4.9	130	100						
SOUTH CAROLINA																							
HARTSVILLE																							
2	LM		51	35	1.15	45	4.6	82	24	6.8	5.3	3	2	100 PERCENT	4.7	110	90	28	23	70			
												*	16.2	104 35 6.1	5.1	120	100	13	9				
														121 43 6.8	5.1	120	100						
SOUTH CENTRAL AREA																							
MISSISSIPPI																							
MORGAN CITY																							
3	LM		51	36	1.19	44	4.1	86	24	6.5	5.1	2	2	100 PERCENT	4.9	100	80	31	22	59			
												*	16.8	117 39 6.6	4.9	120	90	14	10				
														136 46 6.8	4.9	120	90						
WEST AREA																							
NEW MEXICO																							
ARTESIA																							
2	MID		31	36	1.18	46	3.9	86	27	6.6	2.3	0	3	77 PERCENT	5.0	100	80	19	19	99			
												*	13.8	140 49 6.7	5.5	110	90	12	10				
														154 57 7.3	5.5	110	90						
DEXTER																							
2	MID		31	36	1.17	45	3.8	92	27	6.4	2.4	1	3	100 PERCENT	4.7	100	80	20	14	97			
												*	14.0	131 44 6.9	5.4	110	80	12	8				
														148 53 6.9	5.4	110	80						
LAS CRUCES																							
2	MID		31	36	1.16	44	3.4	92	27	5.9	2.0	1	3	100 PERCENT	4.8	100	70	23	19	90			
												*	16.3	130 46 6.3	5.3	100	80	10	8				
														151 55 6.7	5.3	100	80						
* Comber waste and combed yarn data																							
1/ Reduced from 41 because of grass																							
2/ 100 percent selected for tests, less than 100 percent in the area																							

\* Comber waste and combed yarn data

1/ Reduced from 41 because of grass

2/100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns										
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential		
				2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx					
						In			Pct	Rdg			Mpsi							G/tex	Pct		Pct	Lbs
WEST AREA-- (Continued)																								
WEST TEXAS																								
EL PASO																								
2 SLM	41	36	1.17	46	3.7	90	27	ACALA 1517-70	6.3	2.8	1	2	8.1	139	47	7.1	5.0	100	70	18	12	96		
												*	14.7	152	57	6.9	5.4	100	90	14	9			

\* Comber Waste and Combed Yarn Data

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Combed Yarns										
Sample Number		Array Length		Mike	Fiber Strength		Elon- gat' n 1/8" Gage	S.A. Non- Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns					
		UQL	CV		Zero Gage	1/8" Gage			Gra	Yel			Ibs	Pct	Pct	No	No	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx			
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Ibs	Pct	No	No	50s or 12 tx	80s or 7 tx				
WEST																					ARFA			
WEST TEXAS																								
EL PASO																								
1	4	44	1.47	31	4.1	100	34	7.8	3.3	5	5	7.2	17.8	65	35	5.6	4.9	130	120	1	2			
PIMA S-4																					100 PERCENT			
FL PASO																								
3	44	1.44	34	3.9	99	33	8.0	1.9	4	5	6.6	17.6	67	37	5.5	4.8	120	130	1	2				
PIMA S-4																					100 PERCENT			